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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/611,108	07/06/2000	Jose Uemura	2705-107	4929	
7590 02/24/2005			EXAMINER		
Marger Johnson & McCollom PC			PIZARRO, RICARDO M		
1030 SW Morrison Street Portland, OR 97205			ART UNIT	PAPER NUMBER	
			2661	2661	
		DATE MAILED: 02/24/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/611,108	UEMURA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ricardo Pizarro	2661				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period to Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on <u>07 Ju</u>	uly 2004.					
<i>,</i>	action is non-final.					
Disposition of Claims						
4) ☐ Claim(s) is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) <u>29-54</u> is/are allowed. 6) ☐ Claim(s) <u>1,2,6-8,15-16, 18 and 22-23, -25</u> is/ar 7) ☐ Claim(s) <u>3-5,10-14,17,19-21,24 and 26-28</u> is/a 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration. The rejected. The objected to.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Idrawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	4)					
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Drawings

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

1. Claims 15-16, 18, 22, 23 and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Hughes.

Regarding claims 15 and 22, Hughes discloses a transmission control unit 106 in Fig. 1 (an event manager) said control unit maintains a service queue in Fig 2 including elements 244 and 246, col 8 lines 30-33 (comprising an event queue adapted to queue a plurality of event signal); control unit 106 and service queue in Fig. 2, col 8 lines (the event manager comprising an event queue adapted to queue the plurality of signals) and index devices 210 and 212 that will indicate new or current entry status, col 8 lines 14-16 (a status register adapted to maintain a status of the queue).

Regarding claims 16 and 23, Hughes discloses a circular queue (calendar queue)

Regarding claims 18 and 25, Hughes discloses pointers 244 and 246 in Fig. 2, col 8 lines 31-33 (wherein the event manager includes an event read and write pointers).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1-2, 6-8 are rejected under 35 U.S.C. 103(a) over US patent No. 5,835,494 (Hughes) in view of US patent No. 5,917,815 (Byers).

Regarding claim 1, Hughes discloses a multi-level scheduler comprising a plurality of calendar devices including circular queues 112 and 114 In Fig. 2 (plurality of farm devices) each entry in each of the calendar queues 112 and 114 corresponds to a desired service time, Control unit 106 schedules the service time of a virtual connection for a particular cell slot by placing the virtual connection in a linked list associated with a calendar entry that corresponds to the cell slots, page 6 lines 31-35 (said farms adapted to generate a corresponding plurality of signals responsive to a corresponding plurality of signaling events), control unit 106 for the circular calendar queues is shown in Fig. 1, col 5 lines 65 (an event manager adapted to sequence the plurality of event signals), as in claim 1.

Regarding claim 6, Hughes discloses control unit 106 and service queue in Fig. 2, col 8 lines (the event manager comprising an event queue adapted to queue the plurality of event signals) a next connection table that includes entries 248 that comprises both head and tail pointers 244 and 246, col 8 lines 37-41 (and a status register adapted to maintain a status of the event queue).

Regarding claim 7, Hughes discloses a circular queue (calendar queue).

Regarding claim 8, Hughes discloses that the control unit will read each connection id at the head of a queue, col 9 lines 13-14 (event manager comprises an event register to read the event queue)

Hughes did not specifically disclose said farms being frame farms, as in claim 1,

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a plurality of framers adapted to receive corresponding plurality of digital signals and extract corresponding signaling data and generate a corresponding event signal responsive to the signaling data, a signaling queue adapted to queue the signaling data, a signal register adapted to read the signaling queue, as in claim 2;

Byers discloses an Integrated telecommunications signaling network comprising a device including a plurality of framers (DS1 Framers 88 in Fig. 4)adapted to receive corresponding plurality of digital signals (serial streams are delivered to the DS1 framers via interface 86, page 4 line 55-57) and extract corresponding signaling data (framers extract from each DS1, page 4 line 64) and generate a corresponding event signal responsive to the signaling data (signals are then transmitted , page 5 line 3) , a signaling queue adapted to queue the signaling data (signaling queues 84 in Fig. 4 , a signal register adapted to read the signaling queue (DS1 interface 86 in Fig. 4will " read" streams going to DS1 framers 88) , as in claim 2;

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to provide the plurality of framer devices as disclosed by Byers to the circular queuing system disclosed By Hughes to obtain a system that can process using a standard interface provided by standard time division digital signal carrier DS1 into a virtual tributary group for transmission to the field elements.

Allowable Subject Matter

3. Claims 29-54 are allowed.

Claims 3-5,9-14, 17, 19-21, 24, 26-28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claim. Please notice objection to claims under 37 CFR 1.75.

`Conclusion

4. Applicant's arguments with respect to claims 1-2, 6-8 have been considered but are most in view of the new ground(s) of rejection.

Regarding claim 15 applicant argues that Hughes does not disclose a status register adapted to maintain a status of the signals. Examiner disagrees since Hughes discloses a next connection table 116 that updates entries 248 provided by head pointer 244 and tail pointer 246, page 8 lines 34-40.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306

(for formal communications intended for entry, for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to 220 South 20th Street, Crystal Plaza Two, Lobby, Room 1B03, Arlington, Va 22202 (Customer Window).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Ricardo Pizarro** whose telephone number is (571) 272-3077. The examiner can normally be reached on Monday-Friday from 9:00 AM to 5:30 PM. The fax number for this Group is (703) 872-9306.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Chau Nguyen** can be reached on (571) 272-3126.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

2/14/2005

Ricardo M. Pizarro

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SUPERVISORY PATENT EXAMINER
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